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Test Report on Cement

Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike.
Consultant	TEJUS CONSULTANTS.
Contractor	Sri. D K Nagaraja, Bangalore.
Sample ID	Cement
Date of Sample Tested	19.05.18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	39 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	346 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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Test Report on Cement

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Client	Bruhat Bangalore Mahanagar Palike.
Consultant	TEJUS CONSULTANTS.
Contractor	Sri. D K Nagaraja, Bangalore.
Sample ID	Cement
Date of Sample Tested	19.05.18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. D K Nagaraja, Bangalore.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	19.05.18
Period of Soaking	24 hours	Date of Testing	19.05.18

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	670	660	675	
B	Weight of oven - dry sample gm.	660	650	665	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1698	1692	1700	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.672	2.675	2.660	**2.669**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.515	1.538	1.504	**1.519**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. D K Nagaraja, Bangalore.

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material	Fine aggregate (River Sand/ M		Proposed Use	concrete	
Sample Location	At Site/Plant		Date of Sampli	19.05.18	
			Date of Testing	19.05.18	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	225	225	7.50	92.50	90 - 100
2.36 mm	306	531	17.70	82.30	75 - 100
1.18 mm	425	956	31.87	68.13	55 - 90
0.600 mm	486	1442	48.07	51.93	35 -59
0.300 mm	725	2167	72.23	27.77	8-30
0.150 mm	645	2812	93.73	6.27	0 - 10
Pan	188	3000			- -

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

TEJUS CONSULTANTS

TEJUS CONSULTANTS
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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. D K Nagaraja, Bangalore.
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size			Proposed Use	DRAIN
Sample Location	At Site/Plant			Date of Sampling	19.05.18
				Date of Testing	19.05.18
IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	100	100	3.33	96.67	95-100
20.00mm	1325	1425	47.50	52.50	30-70
10.00mm	988	2413	80.43	19.57	10-35
4.75mm	486	2899	96.63	3.37	0-5
Pan	101	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

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Test Report on Cement

Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. D K Nagaraja, Bangalore.
Sample ID	Cement
Date of Sample Tested	26.05.18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	348 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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Test Report on Cement

Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. D K Nagaraja, Bangalore
Sample ID	Cement
Date of Sample	26.05.18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	335 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

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TEST REPORT		
Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.	
Consultants	TEJUS CONSULTANTS	
Contractor	Sri. D K Nagaraja, Bangalore.	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	At Site/Plant		Date of Sampling	26.05.18	
			Date of Testing	26.05.18	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	560	560	5.60	94.40	90-100
10.0	3242	3802	38.02	61.98	40-85
4.75	5660	9462	94.62	5.38	0-10
Pan	538	10000			

Remarks :	Satisfactory / Not Satisfactory

Consultant's Representative

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TEST REPORT	
Client:	BRUHAT BENGALORE MAHANAGARA PALIKE
Project:	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Consultants:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor:	Sri. D K Nagaraja, Bangalore.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material:	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Source/Source:	At Site/Plant	Date of Sampling	26.05.18
Period of Soaking:	24 hours	Date of Testing	26.05.18

	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	655	660	670	
B	Weight of oven - dry sample gm.	645	652	660	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1688	1690	1698	
E	Bulk specific gravity $\frac{B}{(C + A - D)}$	2.665	2.661	2.672	2.666
F	Absorption (%) $\frac{(A - B) * 100}{B}$	1.550	1.227	1.515	1.431

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. D K Nagaraja, Bangalore.

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material:	Fine aggregate (River Sand/ M	Proposed Use	concrete		
Sample Location:	At Site/Plant	Date of Sampli	26.05.18		
		Date of Testing	26.05.18		
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	208	208	6.93	93.07	90 - 100
2.36 mm	302	510	17.00	83.00	75 - 100
1.18 mm	442	952	31.73	68.27	55 - 90
600 mm	482	1434	47.80	52.20	35 -59
300 mm	710	2144	71.47	28.53	8-30
150 mm	633	2777	92.57	7.43	0 - 10
Pan	223	3000			-

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri. D K Nagaraja, Bangalore				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	Plant/At site		**Date of Sampling**	26.05.18	
			Date of Testing	26.05.18	
	Weight Retained	Cum. Weight Retained	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
	0	0	0	100	100
	270	270	2.70	97.30	95 - 100
	4905	5095	50.95	49.05	25 - 55
	4350	9355	93.55	6.45	0 - 10
Pan	645	10000			

Remarks: Satisfactory / Not Satisfactory

Consultant's Representative

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Test report on Compressive strength of concrete cubes

Project:	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	Sri. D K Nagaraja, Bangalore.
Source of specimen:	M20
Specimen:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	26.05.18	02.06.18	7 days	8.160	22500	304	13.51	13.63
2	26.05.18	02.06.18	7 days	8.185	22500	307	13.64	
3	26.05.18	02.06.18	7 days	8.188	22500	309	13.73	

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Test report on Compressive strength of concrete cubes

Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. D K Nagaraja, Bangalore.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	26.05.18	23.06.18	28 days	8.190	22500	464	20.62	20.53
2	26.05.18	23.06.18	28 days	8.200	22500	462	20.53	
3	26.05.18	23.06.18	28 days	8.196	22500	460	20.44	

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